Chemical ID: Jeffamine DA on-site

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:1 Number of Release Sites: 1.

Release Activity: Unload raw material from drums

Release Description:	WATER	LANDFILL	STACK	FUGITIVE
		Non-sludge/Sludge		
Total Releases:	N/A	N/A	0.00	1.82E-12

Non-sludge/Sludge

Release Days/yr: Per Site Release:

N/A	0.00/0.00	0.00	50.00
N/A	N/A/0.00	0.00	3.64E-14
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Chemical ID: Jeffamine DA on-site

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 1 RELEASE ACTIVITY: Unload raw material from drums

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: 3.64E-14 kg/site/day

Fugitive Release Days per Year: 50.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 1.82E-12 kg/yr

Max Annual Average Air Concentration 5.45E-14 μg/m³

(Fugitive):

Max 24 Hour Average Air 4.97E-12 μg/m³

Concentration(Fugitive):

Per Site Stack Release: NA kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 0.00 %

Total Stack Release: NA kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m³

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m³

	D 1	D 1		ASSUM	1PTIONS	
Exposure Units	Results Results (Stack) (Fugitive)	Results (Fugitive)	ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)
Cancer						
LADD _{pot} (mg/kg/day)	0.00	4.22E-18	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	0.00	2.31E-17	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	0.00	9.10E-16	NA	1 day	80.00	0.61

Stack Parameter Data		Fugitive Parameter Data			
Stack Height	10.00	Release Height:	3.00	m	
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m	
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m	
Stack Gas Temperature:	293.00				

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Chemical ID: Jeffamine DA on-site

Assessor:

ENITIDONIA	ALC: VITE A T	RELEASES
- FINVIKUINI	MENIAL	KELEASES

Scenario#:2 Number of Release Sites: 1.

Release Activity: Mixing operation

Release Description:	WATER	LANDFILL	STACK	FUGITIVE
		Non-sludge/Sludge		
Total Releases:	N/A	N/A	0.00	9.30E-16
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr: Per Site Release:

N/A	0.00/0.00	0.00	50.00
N/A	N/A/0.00	0.00	1.86E-17
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Chemical ID: Jeffamine DA on-site

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 2 RELEASE ACTIVITY: Mixing operation

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: 1.86E-17 kg/site/day

Fugitive Release Days per Year: 50.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 9.30E-16 kg/yr

Max Annual Average Air Concentration 2.79E-17 μg/m³

(Fugitive):

Max 24 Hour Average Air 2.54E-15 μg/m³

Concentration(Fugitive):

Per Site Stack Release: NA kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 0.00 %

Total Stack Release: NA kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m³

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m³

	D 1 D 1		ASSUMPTIONS			
Exposure Units	Results Results (Fugitive)		ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)
Cancer						
LADD _{pot} (mg/kg/day)	0.00	2.16E-21	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	0.00	1.18E-20	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	0.00	4.65E-19	NA	1 day	80.00	0.61

Stack Parameter Data		Fugitive Parameter	· Data	
Stack Height	10.00	Release Height:	3.00	m
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m
Stack Gas Temperature:	293.00			

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Chemical ID: Jeffamine DA on-site

Assessor:

Scenario#:3 Number of Release Sites: 1.

Release Activity: Sample product

Release Description:	WATER	LANDFILL	STACK	FUGITIVE	
Non-sludge/Sludge					
Total Releases:	N/A	N/A	0.00	9.30E-16	
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)	

Non-sludge/Sludge

Release Days/yr: Per Site Release:

N/A	0.00/0.00	0.00	50.00
N/A	N/A/0.00	0.00	1.86E-17
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Chemical ID: Jeffamine DA on-site

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 3 RELEASE ACTIVITY:Sample product

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: 1.86E-17 kg/site/day

Fugitive Release Days per Year: 50.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 9.30E-16 kg/yr

Max Annual Average Air Concentration 2.79E-17 μg/m³

(Fugitive):

Max 24 Hour Average Air $2.54E-15 \mu g/m^3$

Concentration(Fugitive):

Per Site Stack Release: NA kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 0.00 %

Total Stack Release: NA kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m³

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m³

	Exposure Units Results (Stack) Results (Fugitive)		ASSUMPTIONS			
Exposure Units		ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)	
Cancer						
LADD _{pot} (mg/kg/day)	0.00	2.16E-21	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	0.00	1.18E-20	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	0.00	4.65E-19	NA	1 day	80.00	0.61

Stack Parameter Data		Fugitive Parameter Data			
Stack Height	10.00	Release Height:	3.00	m	
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m	
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m	
Stack Gas Temperature:	293.00				

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Chemical ID: Jeffamine DA on-site

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4 Number of Release Sites: 1.

Release Activity: Equipment clearning

Release Description:	WATER LANDFILL		STACK	FUGITIVE		
Non-sludge/Sludge						
Total Releases:	N/A	N/A	0.00	4.36E-12		

Non-sludge/Sludge

Release Days/yr: Per Site Release:

N/A	0.00/0.00	0.00	50.00
N/A	N/A/0.00	0.00	8.72E-14
(kg/site/day)	(kg/site/day)	(kg/site/dav)	(kg/site/day)

Chemical ID: Jeffamine DA on-site

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 4 RELEASE ACTIVITY: Equipment clearning

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: 8.72E-14 kg/site/day

Fugitive Release Days per Year: 50.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 4.36E-12 kg/yr

Max Annual Average Air Concentration 1.31E-13 μg/m³

(Fugitive):

Max 24 Hour Average Air $1.19E-11 \mu g/m^3$

Concentration(Fugitive):

Per Site Stack Release: NA kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 0.00 %

Total Stack Release: NA kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m³

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m³

	Exposure Units Results (Stack) Results (Fugitive)	D 1:	ASSUMPTIONS			
Exposure Units		ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)	
Cancer						
LADD _{pot} (mg/kg/day)	0.00	1.01E-17	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	0.00	5.54E-17	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	0.00	2.18E-15	NA	1 day	80.00	0.61

Stack Parameter Data		Fugitive Parameter Data			
Stack Height	10.00	Release Height:	3.00	m	
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m	
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m	
Stack Gas Temperature:	293.00				

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Chemical ID: Jeffamine DA on-site

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Load

Load product into containers

Release Description:	WATER	LANDFILL	STACK	FUGITIVE
		Non-sludge/Sludge		
Total Releases:	N/A	N/A	0.00	1.01E-12
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr: Per Site Release:

N/A	0.00/0.00	0.00	50.00
N/A	N/A/0.00	0.00	2.02E-14
(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Chemical ID: Jeffamine DA on-site

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 5 RELEASE ACTIVITY:Load product into containers

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: 2.02E-14 kg/site/day

Fugitive Release Days per Year: 50.00 days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: 1.01E-12 kg/yr

Max Annual Average Air Concentration 3.02E-14 μg/m³

(Fugitive):

Max 24 Hour Average Air 2.76E-12 μg/m³

Concentration(Fugitive):

Per Site Stack Release: NA kg/site/day

Stack Release Days per Year: NA days

% Removal via Stack Release: 0.00 %

Total Stack Release: NA kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m³

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m³

	Exposure Units Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
Exposure Units			ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)
Cancer						
LADD _{pot} (mg/kg/day)	0.00	2.34E-18	33.00	78.00	80.00	0.61
LADC _{pot} (mg/m ³)	0.00	1.28E-17	33.00	78.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	0.00	5.05E-16	NA	1 day	80.00	0.61

Stack Parameter Data		Fugitive Parameter Data		
Stack Height	10.00	Release Height:	3.00	m
Inside Stack Diameter:	0.10	Length of Release Opening:	10.00	m
Stack Gas Exit Velocity:	0.10	Width of Release Opening:	10.00	m
Stack Gas Temperature:	293.00			

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m